

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G09G3/34

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G09G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/033260 A1 (NISHITANI SHIGEYUKI ET AL) 25 October 2001 (2001-10-25) the whole document	1-12
Y	---	13-20
X	US 2002/130830 A1 (PARK CHEOL-WOO) 19 September 2002 (2002-09-19) the whole document	1-12
Y	---	13-20
Y	US 2002/021292 A1 (SAKASHITA YUKIHIKO) 21 February 2002 (2002-02-21) the whole document	13-20
	---	
	---/---	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

12 February 2004

Date of mailing of the international search report

27/02/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Harke, M

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB 03/05122

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 02 089106 A (GYOTEN TAKAAKI ;NODA HITOSHI (JP); KAWASHIMA MASAHIRO (JP); MATSUS) 7 November 2002 (2002-11-07) the whole document -& EP 1 383 104 A (MATSUSHITA ELECTRIC INDUSTRIAL CO.) 21 January 2004 (2004-01-21) the whole document ---	13-18,20
Y	US 5 717 422 A (FERGASON JAMES L) 10 February 1998 (1998-02-10) the whole document ---	13-18,20
A	EP 0 414 158 A (THOMSON CONSUMER ELECTRONICS) 27 February 1991 (1991-02-27) the whole document -----	1-20

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Publication No  
PCT/IB 03/05122

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2001033260	A1	25-10-2001	JP	2001343957 A	14-12-2001
			TW	518882 B	21-01-2003
US 2002130830	A1	19-09-2002	KR	2002073353 A	26-09-2002
			CN	1375814 A	23-10-2002
			JP	2002202767 A	19-07-2002
			TW	527497 B	11-04-2003
US 2002021292	A1	21-02-2002	JP	2002031846 A	31-01-2002
WO 02089106	A	07-11-2002	JP	2002357810 A	13-12-2002
			CA	2415340 A1	08-01-2003
			CN	1462425 T	17-12-2003
			EP	1383104 A1	21-01-2004
			WO	02089106 A1	07-11-2002
			JP	2003036063 A	07-02-2003
			US	2003146919 A1	07-08-2003
US 5717422	A	10-02-1998	AU	1733195 A	08-08-1995
			WO	9520180 A1	27-07-1995
EP 0414158	A	27-02-1991	US	4980756 A	25-12-1990
			AT	145308 T	15-11-1996
			CA	2023852 A1	26-02-1991
			CN	1049767 A ,B	06-03-1991
			DE	69029109 D1	19-12-1996
			DE	69029109 T2	17-04-1997
			EP	0414158 A2	27-02-1991
			ES	2096566 T3	16-03-1997
			FI	97514 B	13-09-1996
			JP	2612508 B2	21-05-1997
			JP	3091393 A	16-04-1991
			KR	169963 B1	20-03-1999
			PT	95107 A ,B	31-03-1992
			SG	64866 A1	25-05-1999
			RU	2107409 C1	20-03-1998
			TR	26428 A	15-03-1995